

***Aedes aegypti*, Strain UbL40-Cas9 (AAEL006511), Eggs**

Catalog No. NR-51479

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

Centers for Disease Control and Prevention (CDC), Atlanta, Georgia, USA

Product Description:

Classification: *Culicidae*, *Aedes*

Species: *Aedes aegypti*

Strain: UbL40-Cas9 (AAEL006511)

Original Source: *Aedes aegypti* (*Ae. aegypti*), strain UbL40-Cas9 (AAEL006511) was derived from wild-type strain Liverpool.^{1,2}

Genotype: *Ae. aegypti*, strain UbL40-Cas9 (AAEL006511) is a transgenic strain endogenously expressing Cas9 under control of the *ubiquitin L40 (Ubl40)* (AAEL006511) promoter.^{1,2}

Comments: *Ae. aegypti*, strain UbL40-Cas9 (AAEL006511) was generated by the introduction of a piggybac transposon containing the *Ubl40* (AAEL006511) promoter upstream of the coding sequence for Cas9.² Downstream of Cas9, T2A peptide and eGFP genes under the control of the *Ubl40* promoter provide visual confirmation of promoter expression. dsRed expression driven by the baculovirus-derived Opie2 promoter serves as a transgenesis marker.²

Material Provided:

NR-51479 contains a suitable number of live eggs to establish a stock. Eggs are provided on damp filter paper and should be hatched immediately upon receipt.

Packaging/Storage:

NR-51479 is prepared and shipped by the CDC. The product is provided at room temperature.

Growth Conditions:

Standard *Ae. aegypti* rearing procedures are recommended.

Citation:

Acknowledgment for publications should read “The following reagent was deposited by the Centers for Disease Control and Prevention and obtained through BEI Resources, NIAID, NIH: *Aedes aegypti*, Strain UbL40-Cas9 (AAEL006511), Eggs, NR-51479.”

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following

publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

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References:

1. Akbari, O., Personal Communication.
2. Li, M., et al. “Germline Cas9 Expression Yields Highly Efficient Genome Engineering in a Major Worldwide Disease Vector, *Aedes aegypti*.” Proc. Natl. Acad. Sci. USA 114 (2017): E10540-E10549. PubMed: 29138316.

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